

KEMENTERIAN TENAGA, SAINS, TEKNOLOGI, ALAM SEKITAR DAN PERUBAHAN IKLIM

Bil	Berita	Media	Capaian Berita Penuh
1.	MNS calls for eco-friendly solution to plastic waste import issue	The Sun Daily	Klik pada tajuk berita
2.	SPRM minta pengilang di Britain analisis baju kalis api bomba	Utusan Malaysia	Klik pada tajuk berita
3.	Shafie chairs meeting on strengthening State security	Daily Express	Klik pada tajuk berita

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
4.	'It is difficult to regulate cryptocurrencies'/ Hard to regulate cryptocurrencies, says Jomo	New Straits Times	Klik pada tajuk berita atau Rujuk lampiran 1
5.	Power outage in Section 17, PJ caused by overheated, damaged cables	The Star	Klik pada tajuk berita atau Rujuk lampiran 2
6.	Towards meaningful adoption of technology	New Straits Times	Rujuk lampiran 3
7.	Welcome to the era of multiplied innovation	ZD Net	Klik pada tajuk berita
8.	It's Time for a Behavioural Revolution in Innovation	Insead Knowledge	Klik pada tajuk berita
9.	Defense official: We're failing at space innovation	Space News	Klik pada tajuk berita



10.	<u>13 Industries Soon To Be Revolutionized By Artificial Intelligence</u>	Forbes	Klik pada tajuk berita
11.	<u>Artificial Intelligence Is Expected To Be The Most Impactful Technology On Commerce</u>	Forbes	Klik pada tajuk berita
12.	<u>Positive signs for 2019 Malaysian economy, says Knight Frank</u>	Retalk	Klik pada tajuk berita
13.	<u>Electronics 101 for school-leavers</u>	New Straits Times	Klik pada tajuk berita
14.	<u>Innovative teaching at universities</u>	New Straits Times	Klik pada tajuk berita
15.	<u>Henti import 'sampah'</u>	Harian Metro	Klik pada tajuk berita
16.	<u>PETRONAS rancang beli kepentingan pengeluar solar India</u>	Berita Harian	Klik pada tajuk berita
17.	<u>IoT benefits, challenges for property management</u>	New Straits Times	Rujuk lampiran 4

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
18.	<u>How Employee Well-Being Drives Innovation At Work, And How Leadership Can Foster It</u>	Forbes	Klik pada tajuk berita
19.	<u>Who holds the key to the future of biotechnology? You do</u>	World Economic Forum	Klik pada tajuk berita
20.	<u>STEREOTYPES ARE NO JOKE FOR STEM STUDENTS OF COLOR</u>	Futurity	Klik pada tajuk berita
21.	<u>STEM Education "The National Survey of Science and</u>	Education Week	Klik pada tajuk berita



	<u>Mathematics Education"</u>		
22.	<u>New-build properties score well for energy efficiency</u>	The Times.co.uk	Klik pada tajuk berita
23.	<u>Not a dumping ground for world's trash</u>	Panay News	Klik pada tajuk berita
24.	<u>Climate change leads to stronger ocean waves</u>	The Star	Rujuk lampiran 5
25.	<u>Bandar Australia paling panas di muka bumi</u>	Kosmo	Rujuk lampiran 6

LAMPIRAN 1
NEW STRAITS TIMES (BUSINESS/NEWS): MUKA SURAT 18
TARIKH: 17 JANUARI 2019 (KHAMIS)

Hard to regulate cryptocurrencies, says Jomo

KUALA LUMPUR: Economist Prof Dr Jomo Kwame Sundaram said it is difficult to regulate digital currencies as their valuation is highly dependent on the perception of the financial assets.

"Bitcoin is not easy to regulate because of the very nature of it," he said, adding that the public has a superficial understanding of digital currencies.

"Everybody talks about how blockchain technology allows you so much transparency, but what is transparency, specifically? It is about confidence. If you have

confidence in something, the price goes up.

"Once you have doubts, the price goes down. There are no fundamentals involved," he said on the sidelines of the "International Conference on Globalisation: Contents and Discontents".

"There are a lot of myths about cryptocurrencies and blockchain technology. That's why it is important to get a deeper understanding and more public awareness programmes."

World Bank lead economist for macroe-

conomics, trade and investment Richard Record expressed the need for regulatory bodies to tread carefully.

"So it is important that regulatory bodies are careful in introducing new guidelines in the financial markets where the risks are still unknown.

"The challenge is the formal inclusion of digital currencies in financial services market. Digital currency is a very new area for everyone, including the World Bank. We are still studying the best approach for it," he said. **Ooi Tee Ching**

LAMPIRAN 2
THE STAR (NEWS): MUKA SURAT 4
TARIKH: 17 JANUARI 2019 (KHAMIS)

By CHRISTINA LOW
christinalow@thestar.com.my

RESIDENTS in Section 17, Petaling Jaya, have been experiencing frequent power outages since May last year.

The power cuts had increased from twice a month to five times a month in September, which angered many people as it inconvenienced their daily lives.

Tenaga Nasional Bhd (TNB) technicians were quick to answer their calls whenever a power outage occurred, and promptly restored electricity to the affected neighbourhood.

However, residents were adamant to know what caused the power outage.

It affected homes in Jalan 17/13, 17/4, 17/16, 17/46, 17/25, 17/50, 17/32, 17/29, 17/46 and 17/62.

"The residents listed down the affected areas and what time it took place, before we met with officers from TNB to find out why it happened so frequently," said Bukit Gasing assemblyman Rajiv Rishyakaran.

Power outage in Section 17, PJ caused by overheated, damaged cables

He said after TNB visited the area and scanned power joints in Section 17, including several substations and TNB poles in the vicinity, the problem was caused by overheating as power consumption increased over the years.

"Some cables were also damaged because of construction by utility companies," he added.

To prevent further power cuts, TNB has agreed to upgrade and change the faulty joints, said Rajiv.

Rajiv also visited Jalan 17/46 to observe the restoration work that began on Jan 14 and scheduled to complete today.

Affected residents were informed by TNB about the five-hour power cut from 10am to 3pm to facilitate the upgrading work.



A TNB technician replacing the electric cables and joints in Jalan 17/46, Petaling Jaya.



LAMPIRAN 3 NEW STRAITS TIMES (BUSINESS/NEWS): MUKA SURAT 22 TARIKH: 17 JANUARI 2019 (KHAMIS)

VIEW POINT

INVESTMENT AND APPLICATION



MADANI SAHARI

Towards meaningful adoption of technology

Technology is not just a means of staying ahead, but also staying afloat. Its use is not just high volume industrial applications, but also staying afloat. Its use is not just high volume industrial applications, but includes highly-affordable cloud-based tools that improve efficiency of small businesses...

MEANINGFUL implementation of technology penetration is a multi-tiered challenge for any organisation, but discussion often revolves around anxiety with regards to its huge investments.

Recently, this column addressed this anxiety in relation to investing in technology to improve organisational efficiency.

From a financial standpoint, investing in emerging technology requires sound planning to balance risk versus rewards.

Technology is not just a means of staying ahead, but also staying afloat. Its use is not just high volume industrial applications, but also includes highly-affordable cloud-based tools that improve efficiency of small businesses in inventory management and tracking, financial reporting and monitoring as well as creative production. These avenues are where organisations, small or big, should start instilling technology culture.

Subscription-based models are fast becoming popular offerings for business owners. Gone are the days when you had to purchase expensive software only to later realise it only added to depreciation costs (and depression costs). Today, you can lease soft-

ware that you need for as long as you need it with little risk to financial commitments of your business.

This same concept is the basis of numerous Malaysia Automotive, Robotics and IoT Institute (MARii) productivity nucleus programmes, such as Additive Manufacturing, Digital Engineering and Prototyping (DEP), Manufacturing Execution Systems (MES), Computer Aided Engineering (CAE) and High Performance Cloud Computing server.

These services are positioned to accelerate the adoption of Industry 4.0 technologies in all levels of businesses across the automotive supply chain. Instead of absorbing all risks involved with technology procurement, automotive businesses now have new avenues to test the waters for the technology they intend to implement.

Coupled with MARii's human capital development programmes, industry players have access to a one-stop centre for technology based solutions under one roof, allowing them to focus on their core function — sustain a competitive business model which brings the obvious benefits to the economy and the country.

For example, MARii's High-Performance Cloud Computing system is capable of helping businesses reduce computing, calculation and design lead times for applications such as crash simulation, big data analysis and management, telematics, even 3D animation rendering.

Companies only need to lease the use of computing power at the desired stage of their projects, either by temporarily seconding the design team on site (office space is provided), or transmitting data directly via the cloud.

While risks associated with technology investments can now be better mitigated, the key management aspect is getting the whole organisation to be invested in technology. Any transformation from labour-intensive processes towards technology-infused workflows requires instilling the right discipline to continuously use the new available platforms by all members of the organisation.

The first step is top management buy-in and the next step would be a holistic realignment to educate the workforce out of technology averseness. Company policies must be redefined to incentivise the use of productive

technology platforms, while providing the necessary training and mentoring, engagement and follow up beyond one-time introductory sessions merely driven by a few individuals.

As new technologies emerge on a daily basis, it is easy for us to be apathetic due to an inability to keep up with the technology options. To address this situation, technology decision-makers in the company must champion technology solutions that cater to problems faced by their teams and avoid hard-sell approaches without buy-in from employees.

In a global economy that is rapidly encouraging the formation of global value chains, interactions, workflows and processes between business organisations and individuals need to be quicker and more effective — will likely depend on solutions provided by disruptive technology.

The only way for us to remain competitive is to find solutions to match the speed of such technology disruptions. We must ensure technology literacy reaches all levels of our workforce.

The writer is the chief executive officer of Malaysia Automotive, Robotics and IoT Institute.

LAMPIRAN 4
 NEW STRAITS TIMES (INTERNET OF THINGS/PROPERTY): MUKA SURAT 49
 TARIKH: 17 JANUARI 2019 (KHAMIS)

IoT benefits, challenges for property management

KATHY B.

THE Internet of Things (IoT) is poised to shake up the property management sector in Malaysia, says Zerin Properties managing director and founder Previn dran Singhe.

He said IoT's impact on property management alone is expected to be very big — Gartner estimates more than US\$1 billion [RM4.1 billion] spending in the United States, and that's only for commercial assets.

"Zerin Properties has always taken pride in being ahead of the technology curve in the property industry... from our award-winning websites to our award-winning apps and now to embracing the IoT. Still, IoT will not necessarily lead to overnight success for property management players in Malaysia and other members of the sector. I think we are far from it," he told NST Property.

Previn dran said in Malaysia where most property management professionals are still struggling with a mix of outdated legacy systems, lagging technology and unconnected assets, it will take a while for the IoT to take full effect.

"Does that mean it's not worth the investment? Of course, not. What it means is that Malaysian property managers and management companies will face challenges as they prepare for this foreseeable dive into the property management world of the IoT."

Some of the challenges include:

IMPLEMENTATION ISSUES BETWEEN THOUGHT LEADERS AND OPERATIONS

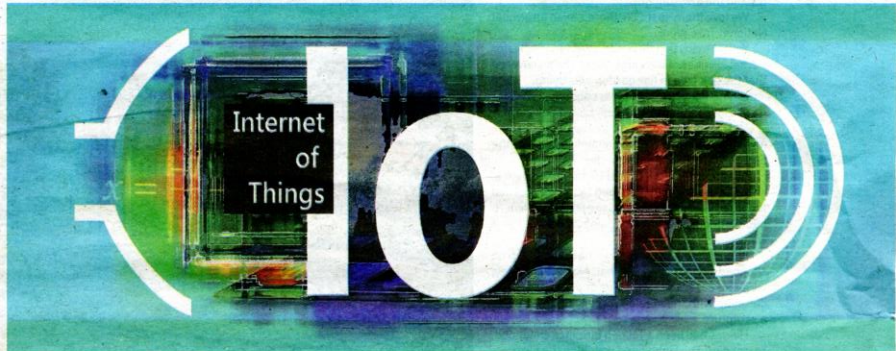
With the advent of any technology disruptor, companies must deal with changing management issues. Thought leaders and operational management teams in a company will sometimes be at conflict when it comes to implementing IoT devices for properties. Many leaders may want to purchase the latest technology as soon as it hits the market, but operational management teams may not want to implement it due to lack of knowledge, or spend money in it.

As IoT devices have a short shelf life, this could be an issue for operational teams who are accustomed to purchasing technologies that last for years if not decades. As such, one will have to find the balance between obtaining a new technology and leveraging existing ones. The choice would mostly depend on whether an IoT device could solve problems and make a bigger impact on employees and processes.

Previn dran cited a device that measures water quality in condominium swimming pools as an example.

He said in today's environment, suppliers would insist on cleaning the pool 12 times a month on a fixed fee, even though the quality of their service cannot be determined prior to cleaning.

"We have seen the number [and cost] drop by half by implementing IoT devices in the pool and this benefits everyone in the service chain. But what would happen in a year or so when new and potentially better devices or software are available?"



"As always a cost-benefit analysis with the help of both leadership and operational management teams to determine if [and when] a new upgrade would make an impact that's worth the investment," he said.

SKILLS

Previn dran said: "In many cases in Malaysia, we are managing a mix pool of colleagues — baby boomers about to complete their journey in the industry and the millennials who have just entered it. All would have their own approach and learning curve when it comes to preparing for the complex processes of the IoT — and their willingness to embrace it."

"The IoT is meant to simplify and make property management more efficient. But adopting it also means abandoning quality control processes, by trusting sensors and machines to determine when other machines need scheduled maintenance, and using data to make decisions that used to be made by people in the management office. It's a complete change from the way business has been done in the past in Malaysia."

He said using IoT vendors to conduct training and continuous education would prove that employees are just as important now as they were before the new technology was implemented.

"Leadership can help change mindsets by reassuring employees that they are not obsolete in the connected property management service chain."

DATA, DATA AND DATA

Previn dran said one of the biggest strengths of IoT is indisputably the exponentially larger amount of data it makes available.

These data contain valuable pieces of information for the management of a building. However, simply collating them is insufficient.

Raw data collected from sensors throughout the building may be incomplete, insufficient or inaccurate. All these disparate data have to be properly accounted for and managed if a property management player expects to make fast and well-informed decisions, fix potential issues and capitalise on the data's full value.

Accomplishing this requires much more than basic data access. It requires using essential data management utilities to handle all information that is part of property management process.

"Only when this happens will connected property management players be able to rely on sophisticated analytics for insights that help them make better decisions, plus giving them a much-needed competitive edge."

Still, very few local leaders feel they have a clear vision on how to implement the IoT on a large scale across the property management process. Connected leaders need to ask: Do they have the process — and the right people and technology — in place for using all of that data? Does their team know the right questions to ask — and the right trends to look for in all the new sources of real-time data?"

BALANCING ACT FOR PROPERTY MANAGERS

Previn dran said digital revolution has put Malaysia's property management segment in exciting times.

"With patience and passion to face the immediate challenges, we are assured to realise the many benefits of IoT in property management. There is very little to lose and all to gain for those that jump in head first to ensure competitive advantage."

Take See Hoy Chan [Bhd], which has one of the biggest in-house FM [facilities management] services in the country, for example. It has added sensors to its landscape irrigation that transmit vital information — such as rain fall and moisture content — to a central hub. A team of employees can now manage issues as soon as they arise, regardless of the parks or landscaped areas' location. As a result, the parks and landscaped areas require less manual inspection and are thriving with consistently correct levels of water," he said.

Previn dran said many leaders still have to grapple with a major skill gap among their colleagues, in terms of IoT implementation, adding that security will remain a top concern in connecting different parts of a company's infrastructure to the digital world.



The Internet of Things is poised to change the landscape of Malaysia's property management sector.

PREVIN DRAN SINGHE
 Zerin Properties managing director and founder



LAMPIRAN 5
THE STAR (STAR ASEAN PLUS): MUKA SURAT 22
TARIKH: 17 JANUARI 2019 (KHAMIS)

Climate change leads to stronger ocean waves

WASHINGTON: The ocean waves are getting stronger as a result of climate change, which might pose dangers for coastal communities in the future, according to a latest study published in the scientific journal *Nature*.

Researchers found that waves have increased in strength by 0.41% per year since 1948, and this change is correlated with the increasing sea-surface temperatures.

This relationship is important, as it shows that "global wave power

can be a potentially valuable indicator of global warming, similarly to carbon dioxide concentration, the global sea level rise or the global surface atmospheric temperature," said director of research at the Environmental Hydraulics Institute at Spain's University of Cantabria and co-author of the new study, Inigo J. Losada.

While the study reveals a long-term trend of increasing wave energy, the effects of this increase are particularly apparent during the

most energetic storm seasons, as occurred during the winter of 2013-2014 in the North Atlantic, which impacted the west coast of Europe, or the devastating 2017 hurricane season in the Caribbean, which offered a harsh reminder of the destructive power and economic impacts of coastal storms, said the study.

Researchers hope the findings could provide a more complete understanding of the dangers faced by coastal communities in the com-

ing decades.

"Our results indicate that risk analysis neglecting the changes in wave power and having sea level rise as the only driver may underestimate the consequences of climate change and result in insufficient or maladaptation," said co-author Fernando J. Mendez, associate professor at the University of Cantabria.

The findings may alert governments to better protect populations and infrastructure such as ports by building coastal defences. — Xinhua

LAMPIRAN 6
KOSMO (DUNIA): MUKA SURAT 42
TARIKH: 17 JANUARI 2019 (KHAMIS)

Bandar Australia paling panas di muka bumi

SYDNEY – Bandar-bandar di Australia muncul tempat antara paling panas di dunia ketika gelombang haba melanda tenggara benua berkenaan, manakala ahli-ahli kaji cuaca merakamkan lebih banyak rekod suhu ekstrem bakal dicatat menjelang hujung minggu ini.

10 suhu paling panas direkodkan di negara itu sejak empat hari lalu dengan sesetengah tempat

mencatatkan bacaan hampir 50 darjah Celsius, kata Biro Meteorologi Australia semalam.

Antara bandar di negeri Australia Selatan itu yang mengalami suhu paling panas kelmarin termasuk pekan Tarcoola yang merekodkan bacaan 49 darjah Celsius.

"Suhu di Australia Selatan memecahkan rekod sedia ada menjadikan rantau tersebut antara kawasan paling panas di

Bumi," kata ahli meteorologi kanan, Philip Perkins kepada agensi berita AFP.

Bandar Pelabuhan Augusta mencatat suhu 48.9 darjah Celsius, hampir 1 darjah Celsius lebih tinggi berbanding rekod sebelum ini yang dicatat pada 7 Februari 2009.

Suhu sebuah bandar padang pasir di Australia Selatan, Coober Pedy pula menyamai rekod sebelumnya, 47.4 darjah Celsius dan memaksa sebilangan penduduk tinggal di bilik-bilik bawah tanah untuk berlindung daripada bahang panas.

Di ibu negeri Australia Selatan, Adelaide selaku penganjur lumba basikal Tour Down Under dan kejohanan kriket Antarabangsa Sehari yang menyaksikan Australia menentang India, atlet-atlet terpaksa beraksi di bawah suhu 41.9 darjah Celsius.

Selain manusia, bahang panas di samping kemarau yang melanda turut dirasai hidupan liar di benua berkenaan. Sehingga sejuta ikan mati ditemui terdampar di tebing sebuah sistem sungai utama dengan pihak berkuasa memberi amaran lebih banyak kematian akan berlaku akibat suhu ekstrem. – AFP



SEORANG pelumba basikal Tour Down Under cuba menyejukkan badan ketika suhu panas direkodkan di bandar raya Adelaide, Australia semalam.

yang melanda turut dirasai hidupan liar di benua berkenaan. Sehingga sejuta ikan mati ditemui terdampar di tebing sebuah

sistem sungai utama dengan pihak berkuasa memberi amaran lebih banyak kematian akan berlaku akibat suhu ekstrem. – AFP